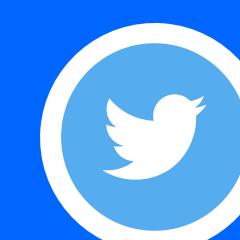




Comprehensive Curriculum for Blockchain Development



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@Sir_Uddy



week 01

Understand the basic concepts of blockchain like

- Decentralization
- Immutability
- Consensus Mechanisms
- Cryptography
- Distributive Computing
- Read the Bitcoin whitepaper and research the different types of blockchain networks (public, private, consortium).
- Study Ethereum, the basics of smart contracts, & dApp development.
- Read the Ethereum whitepaper and research different use cases for smart contracts.
- Explore the Ethereum ecosystem, the EVM, study the consensus mechanism, and other concepts like EIPs, and all the various ERCs
- Learn about Solidity, and other development tools used in Ethereum development, such as Hardhat, ethers.js, Truffle, Ganache, etc.
- Read the Solidity documentation



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week 02

- It is believed you understand the basics of programming concepts such as variables, data types, control flow, and functions.
- Familiarize yourself with the syntax and structure of Solidity
- Learn basic programming concepts in solidity programming language;
 - Smart Contract Structure
 - Variables
 - Constructors
 - Functions
 - Control Structures; (If, While, else, etc)

week 03

- It is believed you understand the basic data structures and algorithms in elementary programming.
- Learn the Data Structures in Solidity programming language
 - Structs
 - Arrays
 - Mappings
- Learn more indepth programming concepts in solidity
 - Events
 - Inheritance
 - Contract Interactivity
 - Custom Functions



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week 04

- Build your smart contract (Simple Crypto Token Contract)
- Work with front-end technologies to build dApps;
 - React js, or Vue, or Angular
 - HTML and CSS
- Learn to link your smart contract and front-end Web3.js, or ethers.js
- Learn development environment tools like
 - Hardhat
 - Truffle
 - Foundry
 - Brownie
- Understand Wallets, e.g Metamask
- Learn Gas Optimization practices
- Learn about decentralised storage platforms viz but not limited to;
 - IPFS, Filecoin, Arweave, etc
- Learn about blockchain node providers and API service providing networks;
 - Quicknode, Infura, Moralis, Chainlink, Alchemy, ETC

week 05

Now Build some cool stuff 😊

I recommend you build a Decentralised Exchange. You can follow Ivan Kuznetsov's opensource clone of the DEX Uniswap v1, v2, and v3 on Github with the link <https://github.com/Jeiwan/zuniswap>



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For any inquiries, do shoot me a DM on Twitter



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